

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**

EAST - [400.wsp:1]

File View Edit Tools Window Help

☐ Drafts  
☐ Pending  
☒ Active  
    L1: (918) carry adj select  
    L2: (318754) increment\$3  
    L3: (90) (1 or csa) same 2  
    L4: (1002) 708/7?? ccls.  
    L5: (10) 3 and 4  
    L6: (80) 3 not 5  
    L7: (3292516) addition or adding or adder  
    L8: (4) 6 and 7.ti.  
    L9: (20) 6 and 7.ab.  
    L10: (17) 9 not 8  
    L11: (63) 6 not 10  
☐ Failed  
☐ Saved  
☐ Favorites  
☒ Tagged (3)  
☐ UDC  
☐ Queue  
☐ Trash

Search:

DBs:  USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM; TDB

Default operator:  OR

☐ Brevets  
☐ Highlight all hit terms initially

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Cl	Inventor	S	C	P	2	3	In
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5517440 A	19960514	30	Optimized binary adders and comparators for inputs having di	708/708	340/146.2; 708/518		Widigen, Larry et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5548546 A	19960820	15	High-speed carry increment adding device	708/706			Jang, Hyun S. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5898596 A	19990427	19	Adder which employs both carry look-ahead and carry select tec	703/21	708/705; 708/706		Ruetz, Peter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US

L Number	Hits	Search Text	DB	Time stamp
-	3522014	l or inphase or "in phase"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:42
-	539221	q or quadrature	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:42
-	308362	multiply or multiplying or multiplication or multiplier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:51
-	2847	complex adj (multiply or multiplying or multiplication or multiplier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:51
-	545	((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:51
-	70092	fourier or fft	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:51
-	169	((((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) and (fourier or fft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 12:52
-	73	((((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) same (fourier or fft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 13:21
-	2	("6266687").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 13:23
-	4	((("5778192") or ("6157997")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 15:08
-	96	(((((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) and (fourier or fft)) not (((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) same (fourier or fft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 15:09
-	4491	((l or inphase or "in phase") (q or quadrature)) with (fourier or fft)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 15:10
-	17	(((((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) and (fourier or fft)) not (((l or inphase or "in phase") with (q or quadrature)) same (complex adj (multiply or multiplying or multiplication or multiplier))) same (fourier or fft)) and (((l or inphase or "in phase") (q or quadrature)) with (fourier or fft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 15:40

-	230	375/235.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 15:41
-	25	(fourier or fft) and 375/235.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 16:05
-	21	(complex adj (multiply or multiplying or multiplication or multiplier)) and 375/235.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 16:14
-	309	amplitude\$1 near3 phase\$1 with imbalanc\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 16:15
-	85	((l or inphase or "in phase") with (q or quadrature)) same (amplitude\$1 near3 phase\$1 with imbalanc\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 16:15
-	17	(complex adj (multiply or multiplying or multiplication or multiplier)) and (((l or inphase or "in phase") with (q or quadrature)) same (amplitude\$1 near3 phase\$1 with imbalanc\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/16 16:16
-	6	((("6,137,833") or ("6,687,292") or ("6,353,631"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:37
-	94281	(l or inphase or "in phase") with (q or quadrature)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:37
-	1094275	magnitude\$1 or gain\$1 or amplitude\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:39
-	1621805	phase\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:40
-	3247	imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:41
-	20304	balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:42
-	22800	(imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:42

-	376	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:43
-	396903	(adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:46
-	121	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 10:46
-	17	11.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:09
-	104	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))) not 11.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:10
-	70174	fft or fourier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:10
-	8276	inverse adj (fft or fourier) or ifft	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:11
-	34	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))) not 11.ab.) and (fft or fourier) and (inverse adj (fft or fourier) or ifft)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:18
-	3	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))) same ((fft or fourier) (inverse adj (fft or fourier) or ifft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 11:25
-	34	((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))) not 11.ab.) and (fft or fourier) and (inverse adj (fft or fourier) or ifft) not (((l or inphase or "in phase") with (q or quadrature)) with ((imbalanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)) or (balanc\$3 near5 ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1)))) same ((adjust\$3 or modified or modify\$3 or chang\$3) with ((magnitude\$1 or gain\$1 or amplitude\$1) or phase\$1))) same ((fft or fourier) (inverse adj (fft or fourier) or ifft))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 16:47

-	6	"4600581"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 16:49
-	2	("5600581").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/17 16:49